Morbidity and Mortality

Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

Prepared by the

COMMUNICABLE DISEASE CENTER

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For release October 18, 1963

ATLANTA, GEORGIA 30333

Vol. 12, No. 41

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED OCTOBER 12, 1963

BOTULISM - Three additional cases of botulism, including two deaths, related to the ingestion of smoked fish products (see MMWR Vol. 12, p. 229) have been reported during the week ending October 12. This brings the total to 16 cases and eight deaths for this outbreak. The cases reported this week included a fatality in a 7-year-old boy from Huntsville, Alabama, and two cases from Nashville, Tennessee, one of which was fatal.

A summary of information pertaining to the 16 cases is shown in the table. The average incubation period, based on the onset of gastrointestinal symptoms, was 20 hours, varying from $6\frac{1}{2}$ to 21 hours. The average interval between ingestion and onset of neurological symptoms was 39 hours, with a range from five to 108 hours.

Fourteen of the victims had eaten the commercially prepared plastic wrapped product known as "vacuum packed smoked whitefish chubs" processed by the H. J. Dornbos and Brother Company of Grand Haven, Michigan and distributed by Kroger's markets.

Notably, only three of the 16 victims are known to have noted a bad or different taste to the fish. None reported the fish to have a bad odor.

The whitefish chubs were caught by gill nets in Lake Michigan on September 16. After devisceration, dressing and icing aboard the fishing boat, they were reported by Dombos to have been processed in the following manner: they were first chilled for 1 day at 35° F, then smoked at 180° F room temperature (175° minimum room temperature)

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

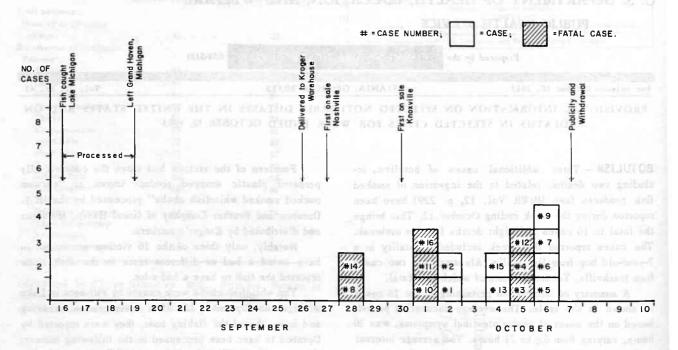
(Cumulative totals include revised and delayed reports through previous week)

	4	lst Wee	k		Cumulative			
Disease	Ended	Ended	Median	First 41 weeks				
with the present senior 45 (self-	October 12, 1963	October 13, 1962	1958 - 1962	1963	1962	Median 1958 - 1962		
Aseptic meningitis	58	87		1,443	2,032	1150 2011		
Brucellosis	8	4	11	294	324	594		
Brucellosis Diphtheria	9	17	16	203	340	507		
Circepnalitis, infectious	22	40	45	1,251	1,506	1,506		
Datitis infectious and serum	798	797	797	34,309	43,671	29,648		
Measies	857	913	927	361,738	446,607	399,169		
"" IIIIVOCOCCAL intections	29	43	42	1,902	1,702	1,808		
oriomyentis, foral	23	30	121	329	675	2,547		
Paralytic Nonparalytic	18	26	78	276	533	1,749		
Nonparalytic	4	2	26	35	103	549		
Streptococcal sore throat	i	2	17	18	39	249		
	4,608	3,889		268,509	249,584			
Claims	15	8		217	221	- I lo		
	3	6		225	236			
Typhus fever, tick-borne	20	12	22	432	501	648		
(Rocky Mountain spotted)	2	4		167	202			
Rabies in Animals	69	57	60	3,010	3,037	3,037		

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

Anthrax: Botulism: Tenn 3 Malaria: N.Y1, N.J1, Pa1, Hawaii-3, Fla1 Plague:	32 Rabies i 78 Smallpox		65 1 - 24
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for five hours, then placed in the chill room at 35° F for 1 day. Finally, they were vacuum packaged in clear plastic wrapping, ready for shipment.

The Kroger shipment left Grand Haven, Michigan on September 19 by truck. It was delivered to Kroger's warehouse in Nashville on September 26. Although the shipment left Grand Haven packed in dry ice, it is as yet uncertain whether it was adequately refrigerated throughout the trip. It was distributed to 18 Kroger supermarkets on September 26 and placed on sale in Nashville, September 27, and in Knoxville, September 30 (see figure). No new case of botulism in this outbreak has occurred since Monday, October 7 when news of this incident was first publicized and the Kroger chain removed the product from its shelves.

Laboratory studies carried out at the R. A. Taft Sanitary Engineering Center and at the Food and Drug Administration have thus far revealed Clostridium botulinum Type E and Type E toxin in fish bones recovered from the home of Family C and from a fish remaining in the Family B home. Oil from the package from which Case 9 consumed a fish has been shown to contain Type E toxin. Testing of packages of fish, not yet sold and unrelated to cases, has revealed Type E toxin in approximately one-third of the packages.

Two Michigan cases (see MMWR Vol. 12, page 329) had eaten smoked whitefish. However, there has been no link established between the two Michigan cases and the cases in Tennessee and Alabama. Type E botulinus toxin was demonstrated in remnants of the fish as well as in

liver and cardiac blood samples from the victims. The smoked fish eaten by the Michigan couple was a large whitefish (apparently not the same fish packaged by Dornbos); it is said to have been purchased from a road-side stand when the couple took a long weekend trip through northern Michigan. The source of this whitefish has not been determined.

CDC has received reports of 32 botulism cases thus far in 1963, which represents the greatest number of cases for any one year during the past decade.

BOTULISM - 1954-1963

YEAR	CASES*	YEAR	CASES*
1954	18	1959	20
1955	16	1960	12
1956	20	1961	14
1957	26	1962	10
1958	6	1963	32

*Source: State Reports received by Communicable Disease Center.

Of the other 1963 cases, only three have been attributed to Type E (see MMWR Vol. 12, page 95). This outbreak in Detroit was traced to tuna fish commercially canned in San Francisco.

(Reported by Dr. Cecil B. Tucker, Director, Division of Preventable Diseases, Tennessee Department of Public Health, Dr. George H. Agate, Epidemiologist, Michigan Department of Health, Dr. Glenn Slocum, Food and Druß Administration, Dr. W. H. Y. Smith, Director, Bureau of Preventable Diseases, Alabama State Department of Health; R. A. Taft Sanitary Engineering Center, and the Communicable Disease Center.)

Toble 1

BOTULISM CASES - TENNESSEE - MICHIGAN - ALABAMA
EPIDEMIOLOGICAL DATA

AND DESCRIPTION OF THE PARTY OF						INTERVAL, IN	HOURS, FROM INGE	STION TO
CASE	AGE	SEX	DATE	, TIME ING	ESTION	GI SYMPTOMS	NEURO SYMPTOMS	DEATH
Knoxville, Tennessee	10 tele	and the same		Comp	E + 1900	A Company	ASSECT SHARE	
Family A								
Case #1	42	M	10/2	6PM		12	108	Alive
#2	41	F	10/2	6PM		12	170	Alive
Family B								
Case #3	32	M	10/5	10AM		61/5	5	46
#4	10	F	10/5	10AM		8	18	48
Family C								
Case #5	39	F	10/6	1PM		7	75	Alive
#6	10	F	10/6	1PM		7	26	Alive
#7 -	8	F	10/6	1PM		7	26	Alive
Nashville, Tennessee								
Case #8	37	М	9/28	11AM		16	20	53
#9	53	M	10/6	5PM		13	15	Alive
#12	52	F	10/5	2-6PM**		13-17	13-17	30
#14	47	M	9/28	11AM		16	16	173
#15	54	M	10/4	7PM		17	90	Alive
Huntsville, Alabama								
Case #13	5	M	10/4	11:30AM		21	48	Alive
#16	7	M	10/1	*		*	*	Died 10/
Kalamazoo, Michigan								
Family D								
Case #10	64	М	10/1	3PM		11	13	41
#11	62	F	10/1	3PM		ii	13	24

^{*} Specific information not available yet.

POLIOMYELITIS – Twenty-nine cases of poliomyelitis, 23 paralytic, were reported for the week ending October 12. Eight cases were reported from Pennsylvania and seven from Virginia. No other State reported more than three cases.

All of Virginia's cases were reported from the Petersburg region. A mass community immunization program,

utilizing type I oral polio vaccine from the Communicable Disease Center epidemic reserve, was conducted October 12 in Petersburg.

Six of Pennsylvania's cases occurred in the metropolitan Philadelphia area.

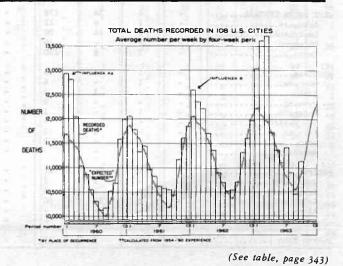
The nation's total thus far in 1963 remains below one-half that reported for a comparable period last year.

TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending October 12 was 11,134 as compared with an expected weekly average of 10,833.

TOTAL DEATHS RECORDED IN 108 UNITED STATES CITIES

		WEEK E	4 Wook	Weekly		
M De	9/21	9/28	10/5	10/12	Total	
Observed	10,951	10,982	11,313	11,290	44,536	11,134
Expected	10,688	10,777	10,878	10,990	43,333	10,833
Excess	263	205	435	300	1,203	301



^{**} Ate 3 fish at 2, 4 and 6 PM.

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

OCTOBER 12, 1963 AND OCTOBER 13, 1962

1000	Polic	omyelitis,			Pol:	iomyeliti	s, paraly		Poliomy nonpara	elitis, lytic		ptic ngitis
Area	41st	week		ative 41 weeks	41st	week	1	lative 41 weeks	41st	week	41st	l.
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	week
1 60 100 100 100	1705	1702	1703	1902	1903	1902	1903	1902	1903	1902	1903	130.
UNITED STATES	23	30	329	675	18	26	276	533	4	2	58	87
WEW ENGLAND	-		4	7	-	-	4	7		Level T	2	1
Maine	37	-	1	-		-11	1	75 -	- 33	HEY	-	1 -
New Hampshire	-	1 -	1	_	1	260	ī	-	- 22	- 1	_	
Massachusetts	177	1 -	2	6	311	#) ID	2	6	- 11		_ 2	[
Rhode Island	35	-	10.0	_		the late	-	V/ -	110	70 (1) [200]		1
Connecticut	-	-	<u> </u>	1	-	(F)	9 -	1	- 1	-	-	-
MIDDLE ATLANTIC	8	5	104	72	7	4	81	51	1	-	4	1
New York	15	3	8	55	301	3	5	37	-111	-	4	1
New Jersey	-	-	1	6	-	-	1	6	100	and the	12	-
Pennsylvania	8	2	95	11	7	1	75	8	1		-	-
EAST NORTH CENTRAL	1	7	49	87	1	7	37	63	- Hen	-	8	9
Ohio.	-	-	8	17	-	-	4	15	-		1	3
IndianaIllinois	ī	2	4 16	16 36	-	2	1 15	12 24		-	- 3	:
Michigan		3	15	12	1	3	15 15	9			4	6
Wisconsin		1	6	6	-	1	2	3	10	est et	-	-
EST NORTH CENTRAL	_	1	5	32	-	1	5	22	25.00	Diam'r	3	6
Minnesota	-	-	4	6	-	-	4	- 6	-	-	3	4
Iowa	-	-	-	5	-	-	-	2	-	-	-	-
Missouri		-	-	9	-	-	-	4	-	-		-
North Dakota	- II-	1	20120 431	4		1	14 C	2	100	See 5	712.00	S. 75
Nebraska		- 11 m		7		-11-5	1	7	The state of	441 - 2		
Kansas	1000	or offers	Mr. 197		29 -	Alberta.	-	10113	Selection of	Shirt and	TILITY	2
SOUTH ATLANTIC	13	4	56	55	9	3	47	48	3	0001	1	6
Delaware	-		1	20 T - I	21 -	Deta-sil	1	-	Laure Cons			1
Maryland	3		3	1	1		1	1	1			
District of Columbia				2	-	3300-17		1	-	10.00	W 69	4,00
Virginia	7	153511	15	7	5		10	7	2	-	1	1
West Virginia North Carolina		2	2	5 10		1	2 3	5 8	9157.51	ces itha	ekeviltike	TTA
South Carolina	-113	-	6	6			5	6	1931	<u> </u>	70.4	
Georgia	2	2	19	14	2	2	18	13			200	
Florida	1	alle u	7	10	1		7	7	10010	Challe.	-	4
EAST SOUTH CENTRAL	1	3	64	63	1	3	60	52		-	8	4
Kentucky		1	1	26	-	1	1	20	L - T91	141953	- 6	-
Tennessee	-		8	9		-	8	4		-	1	-
Alabama	1	2	48 7	22 6	1 -	2	7	22 6	-		1	4
JEST SOUTH CENTRAL		6	24	278		24	23	217	_	1	2	21
Arkansas		1	_ 4	12		i	3	12			Q	1
Louisiana		1	14	20	-	1	14	18	2008	CHTAR		HI.
Oklahoma	17.22	1	Ser.	16	-	_	-	12	-	- 0		9
Texas		3	6	230	- 140	2	6	175	11/2	1	2	11
4OUNTAIN		2	4	14	_	2	3	10	amint.	boines a	8	1
Montana	Section 1	1		4	-	1	a State	3	27.054	1.55	Te Blu	March.
Idaho	-	100	1	2	- 0	(11-1)	1	1	V-F	1-131	725- T	14.00
Wyoming	AL.	1		2 2	- 1	ī	Parents (1		-1	-	
New Mexico	m-	1	1	2	-	1		1	-	112	6	1
Arizona	7131	1 1 1 1 1 1	2	3	g - 15		2	3	-		-	
Utah	1445	Co. (1)		i		100	-	1	93-4-	- To-	2	100
Nevada	HIE.	7-1-1	V Spring	Healt	NOR -	4 M 77 K	57.873	23.730 UF	th Laura	64500.5 H		0.22
PACIFIC		2	19	67	-	2	16	63	-	-	22	38
Washington		10.	1	2	-	-	1	2	200	12234	2	-
Oregon. California		2	2 16	5	-	-	1	5			-	20
Alaska		- 2	10	60	1	2	14	56	10-16	18505ve	20	38
Hawaii		والأثال			-	36-11	417.00	and a	axez, in	Killer I	Barrary I	eine.
and the second s		7-14-1				-34,07	167.4%	777.07	419.42	-137/24	118.611	A
Puerto Rico		-	5	12	-	-	4	12	-	10000		Action

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

OCTOBER 12, 1963 AND OCTOBER 13, 1962 - (Continued)

Charles of section	Brucel	losis	Diphth	eria	Encepha infect		infe	Hepati ctious a		m	Mea	sles
Area		Cumu-		Cumu-			-	lst	week	126		
M Del	The Part of	lative		lative			Under	20 &	I			
Ministration and make	41st week	41 weeks	41st week	41 week	s 41st	week	20 yr.	over	To	tal	41st	week
THREE TO SERVE AT CORE.	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	41st 1963 857 29 5 -1 7 7 7 9 93 65 1 27 176 25 22 23 356 40 38 4 6 6 3 23 2 2 -1 101 -1 101 -1 5 -1 101 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	1962
UNITED STATES	8	294	9	203	22	40	413	330	798	797	857	913
NEW ENGLAND	1. 4. 5	1	-11	8	11.04.14	1	75	41	120	102	29	34
Maine		1 - 6			-		34	17	51	32		4
New Hampshire	1.5 1	1 - 1	- 1	-	-	-	10	7	19	12	11-17-0	4
Vermont		1			-	-	4	3	7			1
Massachusetts	1 1			6		1	22	7	29	43		19
Rhode Island Connecticut		1 1		2		1 4	5	1 6	3 11	5 10		
Connecticut				- 11 15			1712-5			10	,	
MIDDLE ATLANTIC	1	7	1	22	7	5	75	64	139	119		5
New York		3		13	6	4	35	27	62	55		2:
New Jersey	ī	1 3	1	5	1	1	15 25	21 16	36 41	18 46		1
Pennsylvania		3	15.34	3	1	7	25	10	41	40	21	1
EAST NORTH CENTRAL	1	31		23	3	2	60	46	109	153		199
Ohio	100	7	-4	1	1	1	16	11	30	54		3:
Indiana	1	6	1 - 13	5		- 1	9	8	17	8		1
Illinois Michigan	1190	18 5	- 1	12 3	2	1 -	6 27	8 19	14 46	28 46		13
Wisconsin	1172 6	2	15 - 61	2	-	127 200	2		2	17		13
			177	100	200		- St	40.	4.1	1		-
EST NORTH CENTRAL	5	164	1	39	2	2	17	16	43	29		2
Minnesota	5	8 122	1-14	15 1		1	2	5	10	6		
Iowa Missouri	-	122	10 33 1	1	1	1	6	2	8	3		0.00
North Dakota	10.00			2	1	-	1	5	6	1		1
South Dakota	11.2	10	1	12	-	-	4	555	4			1
Nebraska	12- >	6	- 1	8	-	-	2	3	6	4	- 11	100
Kansas	-	6		-	- 10 THE	-	2		8	6	NN	N
SOUTH ATLANTIC	neg I	18	4	48	2	13	42	31	80	86	101	9
Delaware	11.72		10 - 11	-			3	1	4	-	-	14 1
Maryland	3- 1	2 - 14	F - 6		-	-	6	4	10	10	5	
District of Columbia	-	2 -1	- 1	1	11-11	- 1	2	1	3	2	MILES.	-
Virginia		8	-1.1	-	- :	1	8	7	20	15		
West Virginia.		4	- 111	1 2	1	6	5 10	1 6	7 16	22 21		5
South Carolina.		7 76		17		1	1	1	2	2		100
Georgia	C 14	3	3	17	_	-	î	2	3	4		100
Florida		3	1	10	1	5	6	8	15	10	14	1
EAST SOUTH CENTRAL		13	- 1	16	1	4	45	21	67	74	52	5
Kentucky.		3	-30	- 10		4	12	6	18	21		2
Tennessee	-	6		3	1	- 1	22	10	33	26		2
Alabama		4	- 10	10	-	-	7	3	10	12		- 150
Mississippi	6.5	4 -8	-0.5	3	-		4	2	6	15		
WEST SOUTH CENTRAL		33	3	38		4	31	28	59	61		5
Arkansas	- 1	7	-	2	-	-	5	5	10	9	STATE OF THE REAL PROPERTY.	Q 1
Louisiana	- T-	8	3	21	5	-	3	4	7	15		
Oklahoma	-2- 4	5		6	-	-	2	4	6	100		2124
Texas	- A- 11	13	-	9	Butk	4	21	15	36	37	79	5
MOUNTAIN.	1. 1. 1.	9	_	5	1.71	2	14	7	49	36	99	17
Montana	1 1 1 4	1	- 1		-		3	1	5	2		5
Idaho	G- H		- 11	-	-	-	B -	-	8	1		2
Wyoming	3-	1		-	-	-	2	-	2	100-0	1341-1	
Colorado	A .	1 T.	- L	3	-	-	3	46.	10	9	7	2
New Mexico	. 37- 11	-	12 - 11	2	-	2	-	5	5	3	NN	N
ArizonaUtah	1 1	3 5	- 1				6	1	12	9 12	9	3
Nevada.	- i- i-	-				-	-			-	19	3
- V- NO.	. 1 1 1			24						Miller.		2411
PACIFIC	1	18		4	7	7	54	76	132	137	189	23
Washington	- 4" E	3	IN THE		1	000	7	11	18	36	32	5
Oregon. California	1	14	. 511	- 4	6	7	6 38	10 51	18 89	16 79	21 108	7
Alaska		-		- 4	-		2	1	3	3	28	6
Hawaii	12-1	1	13a -II a			W-1	1	3	4	3	3395-0	2
					.1.				117111			

Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

OCTOBER 12, 1963 AND OCTOBER 13, 1962 - (Continued)

	Infect	ococcal ions	Sore T	coccal croat & Fever	Tetanus	Tickborne Typhus (Rcky Mt.	Tularemia	Typhoi	d Fever	Rabie	s in Ani	nals
Area	41st wk.	Cumu- lative 41 weeks	41st	week	41st wk.	Spotted)	41st wk.	41st wk.	Cumu- lative 41 weeks	41st	week	Cumu- lative 41 weeks
100 100 10	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES	29	1,902	4,608	3,889	15	2	3	20	432	69	57	3,010
180 18 18	100	4117	24.0	210	58.	6			.,			
NEW ENGLAND	1_	117 17	248 13	318 116		1			11 2	1		
New Hampshire		4	34	12				- 1	===	1	La Land	12
Vermont	- 1	4	1	5	- S - I		- 1	- 1	1	1		13
Massachusetts		54	44	48				-	6			• 1
Rhode Island Connecticut.	1	11 27	14 176	17 120	- 1	- 1	1 - 1		2	10.5		THE STATE OF
		44	25	- II	la d'a	ec.				11.		
MIDDLE ATLANTIC	1	255 121	153 93	110 58	2	12.5		1 1	78 38	4	5	
New York New Jersey		36	30	35			D C	1 1	5	3	1	
Pennsylvania	100	98	30	17	2	7 - 7	- Ja	Al - 1	35		4	
EAST NORTH CENTRAL.	8	298	341	326	Sec. 3	St. 11	y .	3	50	7	5	466
Ohio	2	79	42	43	- 65			2	18	6	2	
Indiana		45	69	72	\$10 - L	1 1		3 - 1	7	1000		42
Illinois	3	58	49	49		7	3 - 4	1	10	1		
Michigan	2	87	136	117	26	- 7	124	B - 1	10	1000	1	43
Wisconsin	1	29	45	45	1-	. 14		-	5	1112-2	103	40
WEST NORTH CENTRAL	2	119	163	94	10-10	1	2	1	25	21	18	773
Minnesota	-	23	16	12	7 6-17	20-	- I	B) -)	3	_	6	
Iowa	1 5	7	35	40	3 3 7	P - 1		-	3	4		
Missouri		34 13	12 25	2 16	-	. 1 3/	2	1	15	6		
North Dakota	1	6	12	4		1 2	12	01 \$ 1	ī	2	1 2	31 86
Nebraska	î	25	12			2		0 2	1	-	1	
Kansas		11	63	20	-	1		- 1	2			18
SOUTH ATLANTIC	5	349	567	349	4	1	+ .	5	59	12	6	431
Delaware	_	4	4	2		2		í	4			1
Maryland		50	12	1	1			1	10	1		1
Dist. of Columbia	1 1	6	1	-	0 0-1			31 - [9.4520	10 - 2	120,000
Virginia	2	78	143	110	-	-	- 1	<u> </u>	8	8	1	162
West Virginia	1	19	247	90 15			5 to 12		7 7	11		
North Carolina	1	63 18	15 35	18	3	10 31		1	4	300	1	14
Georgia.		28	3	4	_	100	18 H . H 18		2	2		
Florida.	1	83	107	109	m-	1	3 E	2	17	10001	1	69
EAST SOUTH CENTRAL	1	137	954	640	1		_ 11	1	60	2	5	237
Kentucky	727	30	117	32	7 m -	-	- 4- 110	000	13	that -	1	
Tennessee	1	62	785	582	^ 9 - 8-3	4 E - 1	- 1	1	22	1	3	
Alabama	0.7	23	19	13		77	J 17983	- E	10	1		
Mississippi	1 50	22	33	13	1	J = 10		- 1	15	1100	-	1111111
VEST SOUTH CENTRAL	2	172	516	582	5	1	1	5	80	6	1	563
Arkansas	100	11	6	1	1	-	1	2	31	1		-
Louisiana	7.0	70 31	2 10	3	1	-		3	25	1		43
Texas	2	60	498	578	2		e di ele		19	3	9	
A STATE OF THE STA	3	1 (0	000	010				- 1	,,]			100
Montana	3	63	809 57	818 47	2		- 1	- 1	16	3	1	123
Idaho	NA:	6	84	139								-1.55
Wyoming		4	30	9	5 5 7 3	-		17	-			4.6
Colorado	3	19	266	244	1	- 1		-	6	100-	17.10-14	16
New Mexico	1315	4	159	198	3 1 5		- 13	-	3	111 / TA	1	37
Arizona Utah	in the life	10 14	85 128	111 69	1 -				7	3	100-15	56
Nevada		3	120	1		1-1		4 L I S	1			3 11
MATTI	7 16 3	202	057		1		5 PH 8					
ACTFIC	6	392 31	857 247	652 144	1			4	53	13	8	293
Oregon	1.0	28	11	18	-921			-	2	2	46.5	10
California	4	312	369	470	1	-	6	3	45	11	8	274
Alaska		12	58	9		-	-	-	1		100-04	9
Hawaii	1	9	172	11		-		- 1	2	HOUSE H	200.00	70.00

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)

Area	ha of V	For weel	ks ending	1-92	Area		For weel	ks ending	
-613, £3	9/21	9/28	10/5	10/12	Seemen release the self-sent	9/21	9/28	10/5	10/1
NEW ENGLAND:	STABINON	DOM: VIIII		. = = .	SOUTH ATLANTIC:			1	
Boston, Mass.	254	266	223	260	Atlanta, Ga.	125	124	111	14
Bridgeport, Conn.	36	50	29	30	Baltimore, Md.	238	235	283	25
Cambridge, Mass.	19	25	31	31	Charlotte, N.C	35	37	48	2
Fall River, Mass	24	31	26	23	Jacksonville, Fla.	65	48	67	6
Hartford, Conn	56	53	43	52	Miami, Fla.	76	80	92	7
Lowell, Mass.	25	25	29	31	Norfolk, Va.	46	53	54	5
Lynn, Mass.	19	27	21	20	Richmond, Va.	70	79	91	9
New Bedford, Mass	35	29	26	18	Savannah, Ga.	25	26	31	- 4
New Haven, Conn.	48	64	45	56	St. Petersburg, Fla.	60	52	85	
Providence, R.I	53	59	65	44	Tampa, Fla.	84	54	63	1
Somerville, Mass.	10	14	14	17	Washington, D.C.	182	190	228	20
Springfield, Mass.	48	38	34	32	Wilmington, Del.	49	32	34	2
Waterbury, Conn.	31	30	32	30			7750	The Lates	
Worcester, Mass	51	47	51	68	EAST SOUTH CENTRAL:		3574		
				1	Birmingham, Ala.	81	75	68	10
IDDLE ATLANTIC:		. V U.	The last	100	Chattanooga, Tenn.	34	40	31	1
Albany, N.Y.	48	41	45	48	Knoxville, Tenn.	47	28	22	3
Allentown, Pa	34	36	36	39	Louisville, Ky.	150	109	116	1
Buffalo, N.Y.	129	127	140	135	Memphis, Tenn.	101	86	122	10
Camden, N.J.	43	36	57	56	Mobile, Ala.	36	30	44	1
Elizabeth, N.J.	39	22	40	34	Montgomery, Ala.	36	27	39	hoth.
Erie, Pa	35	40	35	33	Nashville, Tenn.	87	81	87	
Jersey City, N.J.	66 -	74	64	83	this it is a second of the sec		0/20/20	1878-519	200
Newark, N.J.	98	67	82	88	WEST SOUTH CENTRAL:	** * * * A		-	
New York City, N.Y.	1,486	1,665	1,639	1,684		37	32	33	
Paterson, N.J.	33	33	34	33	Austin, Tex.	38	41	28	
Philadelphia, Pa.	402	491	520	404	Baton Rouge, La.	21	21	21	HETT:
	161	179	188	200	Corpus Christi, Tex.	135	128	131	1
Pittsburgh, Pa	56	35	49	43	Dallas, Tex.	37	35	31	Vior.
Reading, Pa	105	106	112	96	El Paso, Tex.	71	60	59	
Rochester, N.Y	26	25	112	30	Fort Worth, Tex	171	191	162	1.
Schenectady, N.Y		43		29	Houston, Tex.		55	64	
Scranton, Pa	36		45	50	Little Rock, Ark.	56			
Syracuse, N.Y	60	55	63		New Orleans, La.	130	164	172	1
Trenton, N.J.	42	37		47	Oklahoma City, Okla.	69	72	63	
Utica, N.Y	30	23	23	22	San Antonio, Tex.	96	99	98	9
Yonkers, N.Y	27	30	24	18	Shreveport, La.	61	37	45	-1243
					Tulsa, Okla	54	28	55	
AST NORTH CENTRAL:	70	- 55	60	56		91.00			
Akron, Ohio	70	55 34	60 40	56 23	MOUNTAIN:	20	24	20	
Canton, Ohio	27				Albuquerque, N. Mex.	29	24	39	- 1
Chicago, Ill	757	710	750	755 158	Colorado Springs, Colo	20	12	1	1
Cincinnati, Ohio	150	142	152		Denver, Colo	113	121	135	1
Cleveland, Ohio	211	186	195	228	Ogden, Utah	16	13	13	
Columbus, Ohio	113	108	109	122	Phoenix, Ariz.	85	94	83	
Dayton, Ohio	87	90	86	79	Pueblo, Colo.	13	14	9	1879
Detroit, Mich	366	302	396	363	Salt Lake City, Utah	56	56	51	
Evansville, Ind	27	37	38	37	Tucson, Ariz.	42	34	43	111
Flint, Mich	42	55	36	38	Cartle of the Street Land Co. Co. Co.	FAE 4756	1500		5585 T
Fort Wayne, Ind	48	36	40	38	PACIFIC:	-3-73			17.000
Gary, Ind	19	29	16	28	Berkeley, Calif	12	14	23	
Grand Rapids, Mich	43	55	43	47	Fresno, Calif	35	53	53	0.574
Indianapolis, Ind	137	162	169	166	Glendale, Calif	35	39	42	
Madison, Wis	24	25	34	13	Honolulu, Hawaii	41	35	39	
Milwaukee, Wis	133	105	116	114	Long Beach, Calif	55	64	73	10.00
Peoria, Ill	25	28	25	32	Los Angeles, Calif	566	556	615	5
Rockford, Ill	22	37	27	22	Oakland, Calif	95	82	95	
South Bend, Ind	41	40	42	39	Pasadena, Calif	44	28	30	4.00
Toledo, Ohio	106	107	91	99	Portland, Oreg.	96	128	99	HA
Youngstown, Ohio	55	43	59	59	Sacramento, Calif.	45	68	70	
Toungatown, Onto					San Diego, Calif.	83	84	113	1
EST NORTH CENTRAL:	0.00				San Francisco, Calif.	190	192	153	1
	52	48	45	55	San Jose, Calif.	34	31	30	
Des Moines, Iowa	30	26	23	25		149	120	126	1
Duluth, Minn.	32	34	24	40*	Seattle, Wash.	45	50	41	100
Kansas City, Kans	115	124	114	133	Spokane, Wash	41	35	39	1-5-3
Kansas City, Mo.					Tacoma, Wash	41	33	35	1
Lincoln, Nebr.	21	31	100	119		_	-	-	1 5-10
Minneapolis, Minn.	92	132	109	118	San Juan, P.R	2	5	3	1
Omaha, Nebr	69	65	53	90					
St. Louis, Mo.	230	231	233	207					
St. Paul, Minn.	58	70	69	71	^O Current Week Mortality for	108 Sel	ected Ci	ities	
Wichita, Kans	48	36	38	57					

Estimate - based on average percent of divisional total. Totals for previous weeks include reported corrections.

 ⁴⁽A) Total Mortality, all ages
 11,290

 4(B) Pneumonia-Influenza Deaths, all ages
 396

 4(C) Total Deaths under 1 Year of Age
 789

 4(D) Total Deaths, Persons 65 years and over
 6,201

EPIDEMIOLOGICAL REPORTS

Meningococcal Meningitis - New Jersey

Three cases of meningococcal meningitis, including one death, have been reported from Ft. Dix, New Jersey. Two cases, involving members of the same company, occurred on October 2 and one, involving a member of another company, occurred on October 6.

Since the administration of prophylactic sulfadiazine, no additional cases have been reported from Ft. Dix. (Reported by Dr. W. J. Dougherty, Director, Division of Preventive Disease, New Jersey State Department of Health).

Dengue Fever - Puerto Rico

During the past week, a total of 738 cases of dengue fever were reported to the Puerto Rico Department of Health. The total reported to date is 15,193 cases. Based on reported cases, disease incidence would appear to be declining.

(Reported by Dr. Victor A. Gonzalez, Director, Bureau of Health, Puerto Rico Department of Health).

INTERNATIONAL NOTES

Dengue Fever - Jamaica

Fifty-one cases of dengue fever were reported in seven parishes for the week ending September 28. This brings the cumulative total to 599 cases in Jamaica thus far in 1963.

(Reported in the Weekly Epidemiological Report, Pan American Sanitary Bureau, October 9, 1963).

Poliomyelitis - Canada

Eighty-five cases of paralytic poliomyelitis have been reported in Canada through October 5. Of these, 79 cases have occurred in the Province of Quebec, with most of the cases occurring in the southeastern region of this province. Approximately 65 percent of the population under forty years of age in this epidemic area had previously received Salk vaccine.

Most of the isolations have been Type III poliovirus. Trivalent oral vaccine was distributed in the areas reporting cases during the week ending August 10.

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In addition to the established procedures for reporting morbidity and mortality, the Communicable Disease Center welcomes accounts of interesting outbreaks or cases. Such accounts should be addressed to:

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